

CLAIMS

[1] A surface light source device characterized by comprising: a light-conductor plate that conducts light at an interior and allows same to exit at a light-exit surface to an outside; and a light source arranged oppositely to a light incident surface of the light-conductor plate and small in size as compared to a width of the light-conductor plate;

the light source being held by a fixture engaged on the light-conductor plate, the fixture in part being elastically abutted against an opposite surface of the light source to a surface thereof facing to the light incident surface thereby urging the light source on the light incident surface.

[2] A surface light source device according to claim 1, wherein the light source has a light-emission window having a height thicknesswise of the light-conductor plate equal to or smaller than a thickness of the light-conductor plate.

[3] A surface light source device according to claim 1, wherein the fixture has an exterior height thicknesswise of the light-conductor plate equal to or smaller than a thickness of the light-conductor plate.

[4] A surface light source device according to claim 1, wherein the fixture has a shape symmetric in 180-degree-rotation about an attaching direction to the light-conductor plate.

[5] A surface light source device according to claim 1,

wherein the fixture is removably attached on the light-conductor plate.

[6] A surface light source device according to claim 5, wherein the fixture is fixed on the light-conductor plate by recessing fixture-fit areas in upper and lower surfaces of the light-conductor plate, providing catches projecting in the fixture-fit areas, providing fit pieces in a ring form, an L-form or T-form in the fixture formed in a folded-double form, and putting the fit pieces on the fixture-fit areas into engagement on the catches.

[7] A surface light source device according to claim 5, wherein the fixture is fixed on the light-conductor plate by providing catches in a side surface of the light-conductor plate, and engaging, on the catches, the fit pieces in a ring form, an L-form or T-form provided in the fixture.

[8] A surface light source device according to claim 1, wherein the fixture is fixed on the light-conductor plate by forming one of a crimp projection or crimp hole in any of a fixture-fit area recessed in an upper surface or a lower surface of the light-conductor plate, a side surface of the light-conductor plate and a front surface of the light-conductor plate, forming other of the crimp projection or the crimp hole in the fixture, and inserting the crimp projection in the crimp hole into crimping.

[9] A surface light source device according to claim 1,

wherein the fixture and the light-conductor plate have aligning means for aligning the fixture and the light-conductor plate to each other thicknesswise of the light-conductor plate, the fixture and the light source having aligning means for aligning the fixture and the light source to each other thicknesswise of the light-conductor plate.

[10] A surface light source device according to claim 9, wherein means for aligning the fixture and the light-conductor plate is constituted by providing a thickness-reduced portion in a vicinity of the light incident surface of the light-conductor plate, and clamping the thickness-reduced portion by a pair of parallel protuberances provided in the fixture.

[11] A surface light source device according to claim 9, wherein means for aligning the fixture and the light-conductor plate is constituted by forming one of a positioning projection or a positioning hole in any of a recess provided in an upper surface or an lower surface of the light-conductor plate, a side surface of the light-conductor plate and a front surface of the light-conductor plate, forming other of the positioning projection or the positioning hole in the fixture, and fitting the positioning projection in the positioning hole.

[12] A surface light source device according to claim 9, wherein means for aligning the fixture and the light source

is constituted by providing a thickness-reduced portion at least in a part of the light source, and clamping the thickness-reduced portion by a pair of parallel protuberances provided in the fixture.

[13] A surface light source device according to claim 9, wherein means for aligning the fixture and the light source is constituted by forming one of a positioning projection or a positioning hole in any of a recess provided in an upper surface or an lower surface of the light source, a side surface of the light source and a front surface of the light source, forming other of the positioning projection or the positioning hole in the fixture, and fitting the positioning projection in the positioning hole.

[14] A surface light source device according to claim 9, wherein means for aligning the fixture and the light source is constituted by forming a positioning slit in a back surface of the light source, and fitting a part of the fixture in the positioning slit.